



State of New Hampshire
DEPARTMENT OF ENVIRONMENTAL SERVICES

6 Hazen Drive, P.O. Box 95, Concord, NH 03302-0095
(603) 271-3406 FAX (603) 271-7894



April 5, 2002

Letter of Deficiency
DAM #254.21

Mr. David E. Blackmer
River Road Trust
c/o Earthworks, Inc.
P.O. Box 517
Pine Valley Mill
Wilton, NH 03086

RE: Tannery Brook AKA Frog Pond Dam, Wilton

Dear Mr. Blackmer:

The Department of Environmental Services, Dam Bureau (DES) consistently strives to enhance the safety of dams in New Hampshire through its dam safety program. One of the many instruments that plays a part in reaching this goal is our inspection program. DES is forwarding this correspondence to you to advise you that in accordance with RSA 482:12 and Env-Wr 502.02, an inspection of the subject dam was conducted on June 4, 2001. During this visual inspection and/or file review, the following deficiencies were observed:

- The crest of the dam, near and to the right of the stoplog section, has ruts and lacked vegetative cover;
2. Erosion has occurred on the upstream and downstream face near the stoplog section. It appears that the dam may have been over topped and eroded away parts of the embankment;
 3. There is debris in the channel obstructing flow;
 4. There was heavy brush and numerous trees along the entire length of the downstream embankment and toe of the dam;
 5. In the last inspection report, minor seepage was noted approximately 15 feet to the left of the left end concrete abutment of the stoplog section. This seepage is still present. It is difficult to determine if it is seeping more or less since the last inspection in 1992. Heavy rain occurred a day prior to inspection and therefore it was difficult to distinguish from seepage and standing water left from the rain event;
 6. Another seepage spot was noted on the far right downstream embankment, about 10' to the right of the stoplog section and near the toe of the dam. It is occurring around a large tree at its roots;
 7. According to Env-Wr 307.04, this dam without operations should be able to pass the 50-year storm with 1' of freeboard. Currently, this dam only passes 7 cfs without operations or freeboard. This is grossly under the 50-year storm discharge of 280 cfs.

DES believes that the above deficiencies can be corrected by performing the following items by the indicated schedule:

August 31, 2002:

1. Fill ruts on the crest of the dam and establish a vegetative cover on all bare spots;
2. Provide erosion resistant material on the upstream and downstream faces of the dam
3. Clear debris from the spillway;
4. Cut brush and trees on entire embankment and within 15 feet of the downstream toe;
5. Submit an engineering assessment, as completed by a Professional Engineer in New Hampshire, showing that the dam is stable under the 50-year storm event or submit a formal application to reconstruct the dam to safely pass the 100-year storm event with one foot of freeboard;
6. Prepare and submit to the DES a written operational procedure plan. The plan should describe the control of impoundment levels, monitoring and maintenance procedures, and identify emergency contact personnel; and

On a continuing basis:

7. Monitor the two seepage spots mentioned above and notify DES if any increases occur.

DES is requesting that you complete and submit the attached "Intent to Complete Repairs" form, within 30 days of receipt of this letter, that will provide for correction of the identified deficiencies by the date(s) indicated above. If you believe changes to the items of work or dates are necessary, please make the changes directly on the form and provide a brief explanation. We have enclosed a self addressed stamped envelope for you to return this form.

Our intent in sending you this correspondence is to make you aware of items that DES believes warrant your attention to insure the continued safe operation of your dam. It is our hope that, through the submittal of the attached form and a commitment to keeping a well-maintained dam, you will voluntarily comply with the requested items of work. If we do not receive the intent form or a similarly adequate written reply, we will assume that you are in agreement with our findings and recommendations and DES will carry out follow-up inspections accordingly.

If you have any questions or comments regarding this Letter of Deficiency or would like to be present at future inspections, please contact me at 271-3406, or write to the Water Division at the address listed on the top of the previous page.

Sincerely,


COPY
Amy C. Clark
Dam Safety Engineer

Attachments Guideline for an O&M plan, DB8, DB13
cc: Gretchen Rule ✓
Town of Wilton
Certified # 7099 3400 0002 9772 9905
ACC/was/h:/safety/wendy/lod/254-21lod.doc